

# ACKNOWLEDGEMENT RECEIPT

Electronic Version

Stylesheet Version v01

| <b>Title of Invention</b>   | <b>ADAPTIVE DE-BLOCKING FILTERING APPARATUS AND METHOD FOR MPEG VIDEO DECODER</b>   |              |                          |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
|---|---|--------------|--------------------------|-------------------|---------|-------|---|-------|------|-----------|-----------|--------------|--------------------------|---------------|---------------------|------|------------|---------------|-------------------|------|------------|---------------|-------------------|-------|------------|---------------|------------------|-------|------------|---------------|------------------|-------|------------|------------|--------------------|------|------------|------------|----------------|-------|------------|------------|----------------|-------|------------|----------------|---------------------|------|------------|----------------|--------------------|------|------------|----------------|--------------------|-------|------------|--------------|---------------------|------|------------|--------------|------------------|-------|------------|--------------|------------------|-------|------------|--------|---------------------|------|------------|--------|------------|------|------------|--------|------------|-------|------------|----------------------------|---------------------|------|------------|----------------------------|--------------------------------|------|------------|----------------------------|--------------------------------|-------|------------|----------------|------------------|-------|------------|----------------|------------------|-------|------------|------------------|--------------------|-------|------------|------------------|-------------------------|-------|------------|------------------|----------------------|-------|------------|------------------|----------|------|------------|------------------|-------------|-------|------------|------------------|---------------------|-------|------------|------------------|-------------|------|------------|------------------|-------------|------|------------|
| <p>Submission Type : Utility Patent Filing</p> <p>Application Number: 10/709337 </p> <p>EFS ID: 60049</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30%;">Confirmation Code</th> <th style="width: 70%;">Message</th> </tr> </thead> <tbody> <tr> <td>ISVR1</td> <td>Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application</td> </tr> <tr> <td>ICON1</td> <td>3336</td> </tr> </tbody> </table> <p>First Named Applicant: Do-Kyoung Kwon</p> <p>Attorney Docket Number: MTKP0172USA</p> <p>Timestamp: 2004-04-29 03:52:40 EDT</p> <p>From: US</p> <p>File Listing:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 20%;">Doc. Name</th> <th style="width: 40%;">File Name</th> <th style="width: 15%;">Size (Bytes)</th> <th style="width: 25%;">Date Produced (yyyymmdd)</th> </tr> </thead> <tbody> <tr><td>us-assignment</td><td>MTKP0172-usassn.xml</td><td>2063</td><td>2004-04-29</td></tr> <tr><td>us-assignment</td><td>us-assignment.xsl</td><td>8983</td><td>2004-04-29</td></tr> <tr><td>us-assignment</td><td>us-assignment.dtd</td><td>10898</td><td>2004-04-29</td></tr> <tr><td>us-assignment</td><td>MTKP0172ASS1.tif</td><td>38872</td><td>2004-04-29</td></tr> <tr><td>us-assignment</td><td>MTKP0172ASS2.tif</td><td>34552</td><td>2004-04-29</td></tr> <tr><td>us-request</td><td>MTKP0172-usreq.xml</td><td>2782</td><td>2004-04-29</td></tr> <tr><td>us-request</td><td>us-request.dtd</td><td>19064</td><td>2004-04-29</td></tr> <tr><td>us-request</td><td>us-request.xsl</td><td>33300</td><td>2004-04-29</td></tr> <tr><td>us-declaration</td><td>MTKP0172-usdecl.xml</td><td>1104</td><td>2004-04-29</td></tr> <tr><td>us-declaration</td><td>us-declaration.dtd</td><td>3833</td><td>2004-04-29</td></tr> <tr><td>us-declaration</td><td>us-declaration.xsl</td><td>10015</td><td>2004-04-29</td></tr> <tr><td>us-fee-sheet</td><td>MTKP0172-usfees.xml</td><td>2055</td><td>2004-04-29</td></tr> <tr><td>us-fee-sheet</td><td>us-fee-sheet.xsl</td><td>24912</td><td>2004-04-29</td></tr> <tr><td>us-fee-sheet</td><td>us-fee-sheet.dtd</td><td>11069</td><td>2004-04-29</td></tr> <tr><td>us-ids</td><td>MTKP0172-usidst.xml</td><td>4812</td><td>2004-04-29</td></tr> <tr><td>us-ids</td><td>us-ids.dtd</td><td>7763</td><td>2004-04-29</td></tr> <tr><td>us-ids</td><td>us-ids.xsl</td><td>12026</td><td>2004-04-29</td></tr> <tr><td>us-power-of-attorney-grant</td><td>MTKP0172-uspoat.xml</td><td>1002</td><td>2004-04-29</td></tr> <tr><td>us-power-of-attorney-grant</td><td>us-power-of-attorney-grant.dtd</td><td>4923</td><td>2004-04-29</td></tr> <tr><td>us-power-of-attorney-grant</td><td>us-power-of-attorney-grant.xsl</td><td>12448</td><td>2004-04-29</td></tr> <tr><td>us-declaration</td><td>MTKP0172DEC1.tif</td><td>42722</td><td>2004-04-29</td></tr> <tr><td>us-declaration</td><td>MTKP0172DEC2.tif</td><td>30980</td><td>2004-04-29</td></tr> <tr><td>application-body</td><td>MTKP0172-trans.xml</td><td>93470</td><td>2004-04-29</td></tr> <tr><td>application-body</td><td>us-application-body.xsl</td><td>83497</td><td>2004-04-29</td></tr> <tr><td>application-body</td><td>application-body.dtd</td><td>49498</td><td>2004-04-29</td></tr> <tr><td>application-body</td><td>wipo.ent</td><td>4956</td><td>2004-04-29</td></tr> <tr><td>application-body</td><td>mathml2.dtd</td><td>54588</td><td>2004-04-29</td></tr> <tr><td>application-body</td><td>mathml2-qname-1.mod</td><td>13225</td><td>2004-04-29</td></tr> <tr><td>application-body</td><td>isoamsa.ent</td><td>5191</td><td>2004-04-29</td></tr> <tr><td>application-body</td><td>isoamsb.ent</td><td>3988</td><td>2004-04-29</td></tr> </tbody> </table> |   |              |                          | Confirmation Code | Message | ISVR1 | Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application | ICON1 | 3336 | Doc. Name | File Name | Size (Bytes) | Date Produced (yyyymmdd) | us-assignment | MTKP0172-usassn.xml | 2063 | 2004-04-29 | us-assignment | us-assignment.xsl | 8983 | 2004-04-29 | us-assignment | us-assignment.dtd | 10898 | 2004-04-29 | us-assignment | MTKP0172ASS1.tif | 38872 | 2004-04-29 | us-assignment | MTKP0172ASS2.tif | 34552 | 2004-04-29 | us-request | MTKP0172-usreq.xml | 2782 | 2004-04-29 | us-request | us-request.dtd | 19064 | 2004-04-29 | us-request | us-request.xsl | 33300 | 2004-04-29 | us-declaration | MTKP0172-usdecl.xml | 1104 | 2004-04-29 | us-declaration | us-declaration.dtd | 3833 | 2004-04-29 | us-declaration | us-declaration.xsl | 10015 | 2004-04-29 | us-fee-sheet | MTKP0172-usfees.xml | 2055 | 2004-04-29 | us-fee-sheet | us-fee-sheet.xsl | 24912 | 2004-04-29 | us-fee-sheet | us-fee-sheet.dtd | 11069 | 2004-04-29 | us-ids | MTKP0172-usidst.xml | 4812 | 2004-04-29 | us-ids | us-ids.dtd | 7763 | 2004-04-29 | us-ids | us-ids.xsl | 12026 | 2004-04-29 | us-power-of-attorney-grant | MTKP0172-uspoat.xml | 1002 | 2004-04-29 | us-power-of-attorney-grant | us-power-of-attorney-grant.dtd | 4923 | 2004-04-29 | us-power-of-attorney-grant | us-power-of-attorney-grant.xsl | 12448 | 2004-04-29 | us-declaration | MTKP0172DEC1.tif | 42722 | 2004-04-29 | us-declaration | MTKP0172DEC2.tif | 30980 | 2004-04-29 | application-body | MTKP0172-trans.xml | 93470 | 2004-04-29 | application-body | us-application-body.xsl | 83497 | 2004-04-29 | application-body | application-body.dtd | 49498 | 2004-04-29 | application-body | wipo.ent | 4956 | 2004-04-29 | application-body | mathml2.dtd | 54588 | 2004-04-29 | application-body | mathml2-qname-1.mod | 13225 | 2004-04-29 | application-body | isoamsa.ent | 5191 | 2004-04-29 | application-body | isoamsb.ent | 3988 | 2004-04-29 |
| Confirmation Code   | Message   |              |                          |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| ISVR1   | Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application |              |                          |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| ICON1   | 3336  |              |                          |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| Doc. Name   | File Name   | Size (Bytes) | Date Produced (yyyymmdd) |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-assignment   | MTKP0172-usassn.xml   | 2063         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-assignment   | us-assignment.xsl   | 8983         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-assignment   | us-assignment.dtd   | 10898        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-assignment   | MTKP0172ASS1.tif  | 38872        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-assignment   | MTKP0172ASS2.tif  | 34552        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-request  | MTKP0172-usreq.xml  | 2782         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-request  | us-request.dtd  | 19064        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-request  | us-request.xsl  | 33300        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-declaration  | MTKP0172-usdecl.xml   | 1104         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-declaration  | us-declaration.dtd  | 3833         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-declaration  | us-declaration.xsl  | 10015        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-fee-sheet  | MTKP0172-usfees.xml   | 2055         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-fee-sheet  | us-fee-sheet.xsl  | 24912        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-fee-sheet  | us-fee-sheet.dtd  | 11069        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-ids  | MTKP0172-usidst.xml   | 4812         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-ids  | us-ids.dtd  | 7763         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-ids  | us-ids.xsl  | 12026        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-power-of-attorney-grant  | MTKP0172-uspoat.xml   | 1002         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-power-of-attorney-grant  | us-power-of-attorney-grant.dtd  | 4923         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-power-of-attorney-grant  | us-power-of-attorney-grant.xsl  | 12448        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-declaration  | MTKP0172DEC1.tif  | 42722        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| us-declaration  | MTKP0172DEC2.tif  | 30980        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| application-body  | MTKP0172-trans.xml  | 93470        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| application-body  | us-application-body.xsl   | 83497        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| application-body  | application-body.dtd  | 49498        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| application-body  | wipo.ent  | 4956         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| application-body  | mathml2.dtd   | 54588        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| application-body  | mathml2-qname-1.mod   | 13225        | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| application-body  | isoamsa.ent   | 5191         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |
| application-body  | isoamsb.ent   | 3988         | 2004-04-29               |                   |         |       |   |       |      |           |           |              |                          |               |                     |      |            |               |                   |      |            |               |                   |       |            |               |                  |       |            |               |                  |       |            |            |                    |      |            |            |                |       |            |            |                |       |            |                |                     |      |            |                |                    |      |            |                |                    |       |            |              |                     |      |            |              |                  |       |            |              |                  |       |            |        |                     |      |            |        |            |      |            |        |            |       |            |                            |                     |      |            |                            |                                |      |            |                            |                                |       |            |                |                  |       |            |                |                  |       |            |                  |                    |       |            |                  |                         |       |            |                  |                      |       |            |                  |          |      |            |                  |             |       |            |                  |                     |       |            |                  |             |      |            |                  |             |      |            |

|  | Doc. Name        | File Name          | Size (Bytes) | Date Produced<br>(yyyymmdd) |
|--|------------------|--------------------|--------------|-----------------------------|
|  | application-body | isoamsc.ent        | 1460         | 2004-04-29                  |
|  | application-body | isoamsn.ent        | 5620         | 2004-04-29                  |
|  | application-body | isoamso.ent        | 1934         | 2004-04-29                  |
|  | application-body | isoamsr.ent        | 7073         | 2004-04-29                  |
|  | application-body | isogrk3.ent        | 3559         | 2004-04-29                  |
|  | application-body | isomfrk.ent        | 4553         | 2004-04-29                  |
|  | application-body | isomopf.ent        | 2571         | 2004-04-29                  |
|  | application-body | isomscr.ent        | 4628         | 2004-04-29                  |
|  | application-body | isotech.ent        | 5268         | 2004-04-29                  |
|  | application-body | isobox.ent         | 3568         | 2004-04-29                  |
|  | application-body | isocyr1.ent        | 5345         | 2004-04-29                  |
|  | application-body | isocyr2.ent        | 2504         | 2004-04-29                  |
|  | application-body | isodia.ent         | 1508         | 2004-04-29                  |
|  | application-body | isolat1.ent        | 5282         | 2004-04-29                  |
|  | application-body | isolat2.ent        | 9007         | 2004-04-29                  |
|  | application-body | isounum.ent        | 5913         | 2004-04-29                  |
|  | application-body | isopub.ent         | 6621         | 2004-04-29                  |
|  | application-body | mmlextra.ent       | 7901         | 2004-04-29                  |
|  | application-body | mmlalias.ent       | 38209        | 2004-04-29                  |
|  | application-body | soextblk.dtd       | 12870        | 2004-04-29                  |
|  | application-body | Image01.tif        | 1166         | 2004-04-29                  |
|  | application-body | Image02.tif        | 2452         | 2004-04-29                  |
|  | application-body | Image03.tif        | 1796         | 2004-04-29                  |
|  | application-body | Image04.tif        | 1120         | 2004-04-29                  |
|  | application-body | Image05.tif        | 1300         | 2004-04-29                  |
|  | application-body | Image07.tif        | 531          | 2004-04-29                  |
|  | application-body | Image06.tif        | 2772         | 2004-04-29                  |
|  | application-body | Image08.tif        | 1432         | 2004-04-29                  |
|  | application-body | Image09.tif        | 1485         | 2004-04-29                  |
|  | application-body | Image10.tif        | 1405         | 2004-04-29                  |
|  | application-body | Image11.tif        | 1420         | 2004-04-29                  |
|  | application-body | Image12.tif        | 928          | 2004-04-29                  |
|  | application-body | Image13.tif        | 962          | 2004-04-29                  |
|  | application-body | Image14.tif        | 921          | 2004-04-29                  |
|  | application-body | Image15.tif        | 946          | 2004-04-29                  |
|  | application-body | Image16.tif        | 1049         | 2004-04-29                  |
|  | application-body | Image17.tif        | 939          | 2004-04-29                  |
|  | application-body | Image18.tif        | 1123         | 2004-04-29                  |
|  | application-body | Image19.tif        | 971          | 2004-04-29                  |
|  | application-body | Image20.tif        | 1049         | 2004-04-29                  |
|  | application-body | Image21.tif        | 923          | 2004-04-29                  |
|  | application-body | Image22.tif        | 1122         | 2004-04-29                  |
|  | application-body | Image23.tif        | 960          | 2004-04-29                  |
|  | application-body | Image24.tif        | 2012         | 2004-04-29                  |
|  | application-body | Image25.tif        | 1322         | 2004-04-29                  |
|  | application-body | Image26.tif        | 1378         | 2004-04-29                  |
|  | application-body | Image27.tif        | 2740         | 2004-04-29                  |
|  | application-body | Image28.tif        | 1664         | 2004-04-29                  |
|  | application-body | Image29.tif        | 3624         | 2004-04-29                  |
|  | application-body | Image30.tif        | 1102         | 2004-04-29                  |
|  | application-body | Image31.tif        | 1232         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-01.tif | 5470         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-02.tif | 7858         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-03.tif | 12784        | 2004-04-29                  |
|  | application-body | Mtkp0172usa-04.tif | 7888         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-05.tif | 5372         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-06.tif | 10270        | 2004-04-29                  |
|  | application-body | Mtkp0172usa-07.tif | 3036         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-08.tif | 3688         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-09.tif | 3816         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-10.tif | 4780         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-11.tif | 4776         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-12.tif | 4736         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-13.tif | 4742         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-14.tif | 6204         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-15.tif | 9436         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-16.tif | 5654         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-17.tif | 11532        | 2004-04-29                  |
|  | application-body | Mtkp0172usa-18.tif | 6274         | 2004-04-29                  |
|  | application-body | Mtkp0172usa-19.tif | 11640        | 2004-04-29                  |

| Doc. Name        | File Name           | Size (Bytes) | Date Produced<br>(yyyymmdd) |
|------------------|---------------------|--------------|-----------------------------|
| application-body | Mtkp0172usa-20.tif  | 6284         | 2004-04-29                  |
| application-body | Mtkp0172usa-21.tif  | 6212         | 2004-04-29                  |
| application-body | Mtkp0172usa-22.tif  | 14714        | 2004-04-29                  |
| application-body | Mtkp0172usa-23.tif  | 9750         | 2004-04-29                  |
| application-body | Mtkp0172usa-24.tif  | 17832        | 2004-04-29                  |
| application-body | Mtkp0172usa-25.tif  | 10528        | 2004-04-29                  |
| application-body | Mtkp0172usa-26.tif  | 17998        | 2004-04-29                  |
| application-body | Mtkp0172usa-27.tif  | 10510        | 2004-04-29                  |
| application-body | Mtkp0172usa-28.tif  | 87998        | 2004-04-29                  |
| application-body | Mtkp0172usa-29.tif  | 4784         | 2004-04-29                  |
| package-data     | MTKP0172-pkda.xml   | 18879        | 2004-04-29                  |
| package-data     | package-data.dtd    | 27025        | 2004-04-29                  |
| package-data     | us-package-data.xls | 19263        | 2004-04-29                  |
| Total files size |                     |              | 1189564                     |

Message Digest:

d2c2d09e0629dcda7e39389cdb5e3090fb022d28

Digital Certificate Holder  
Name:

cn=Winston Hsu,ou=Registered  
Attorneys,ou=Patent and  
Trademark  
Office,ou=Department of  
Commerce,o=U.S.  
Government,c=US